

Claim 4. (Previously Amended) A shaped charge according to claim 1 wherein the percentage of heavy metal in the mixture is within a range of approximately 99.0% to 99.98% by weight.

Claim 5. (Previously Amended) A shaped charge according to claim 1 wherein the binder metal is chosen from the group consisting of copper, lead, zinc, tin, and bismuth.

Claim 6. (Previously Amended) A shaped charge according to claim 1 wherein the binder metal consists primarily of lead.

Claim 7. (Previously Amended) A shaped charge according to claim 1 wherein the mixture further comprises approximately 0.02% to 0.10% lubricant by weight.

Claim 8. (Previously Amended) A shaped charge according to claim 7 wherein the lubricant comprises powdered graphite.

Claim 9. (Previously Amended) A shaped charge according to claim 7 wherein the lubricant comprises oil.

Claim 10. (Previously Amended) A shaped charge according to claim 1 wherein the percentage of heavy metal in the mixture is approximately 93.0%.[]

Claim 11. (Previously Amended) A shaped charge comprising:  
a casing;  
an explosive material disposed within the casing having a cavity formed therein; and  
a liner disposed within the cavity formed of heavy metal powder, coated with a binder metal, formed into a rigid body.

Claim 12. (Previously Amended) A shaped charge according to claim 11 wherein the heavy metal powder is chosen from the group consisting of tungsten, tantalum, platinum, gold, or any mixture thereof.

Claim 13. (Previously Amended) A shaped charge according to claim 11 wherein the heavy metal comprises tungsten.

Claim 14. (Previously Amended) A shaped charge according to claim 11 wherein the binder metal is chosen from the group consisting of copper, tin, zinc, lead, bismuth or any mixture thereof.

Claim 15. (Previously Amended) A shaped charge according to claim 11 wherein the percentage of heavy metal in the heavy metal powder is within a range of approximately 91.0% to 99.98% by weight.

Claim 16. (Previously Amended) A shaped charge according to claim 11 wherein the percentage of heavy metal in the heavy metal liner is approximately 93.0%.

Claim 17. (Previously Amended) A shaped charge according to claim 11 wherein the percentage of heavy metal is within a range of approximately 99.0% to 99.98% by weight.

Claim 18. (Previously Amended) A [liner for a] shaped charge according to claim 11 wherein the heavy metal powder, coated with binder metal, is mixed with approximately 0.02% - 1.0% lubricant by weight.

Claim 19. (Previously Amended) A shaped charge according to claim 18 wherein the lubricant comprises powdered graphite.

Claim 20. (Previously Amended) A shaped charge according to claim 18 wherein the lubricant comprises oil.

Claim 21. (Previously Amended) A shaped charge comprising:  
a casing;  
an explosive material disposed within the casing having a cavity formed therein; and  
a liner disposed within the cavity formed of a mixture of powdered heavy metal, powdered metal binder, and a heavy metal powder coated with a binder metal formed into a rigid body.

Claim 22. (Previously Amended) A shaped charge according to claim 21 wherein the rigid body is substantially conical.

Claim 23. Canceled.

Claim 24. Canceled.

Claim 25. (Previously Amended) A shaped charge according to claim 21 wherein the percentage of heavy metal in the mixture is within a range of approximately 90.0% to 99.98% by weight.

Claim 26. (Previously Amended) A shaped charge according to claim 21 wherein the percentage of heavy metal in the mixture is approximately 93.0%.

Claim 27. (Previously Amended) A shaped charge according to claim 21 wherein the heavy metal powder is chosen from the group consisting of tungsten, tantalum, gold, platinum, or any mixture thereof.

Claim 28. (Previously Amended) A shaped charge according to claim 21 wherein the heavy metal consists primarily of tungsten.

Claim 29. (Previously Amended) A shaped charge according to claim 21 wherein the percentage of heavy metal in the mixture is within a range of approximately 99.0% to 99.98% by weight.

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Claim 30. (Previously Amended) A shaped charge according to claim 21 wherein the binder metal is chosen from the group consisting of copper, lead, zinc, tin, and bismuth.

Claim 31. (Previously Amended) A shaped charge according to claim 21 wherein the binder metal consists primarily of lead.

Claim 32. (Previously Amended) A shaped charge according to claim 21 wherein the mixture further comprises approximately 0.02% to 1.0% lubricant by weight.

Claim 33. (Previously Amended) A shaped charge according to claim 21 wherein the lubricant comprises powdered graphite.

Claim 34. (Previously Amended) A shaped charge according to claim 21 wherein the lubricant comprises oil.

Claim 35. (Previously Amended) A shaped charge according to claim 21 wherein the liner is compressively formed.

Claim 36. (Previously Amended) A shaped charge according to claim 1 wherein the liner is compressively formed.

Claim 37. (Previously Amended) A shaped charge according to claim 11 wherein the liner is compressively formed.